Establishing a Multinational Lunar R&D Park and University as a Sustainable Robotic/Human Settlement Beyond LEO

What would comprise a workable model for an LRDP/U, and what could be the associated scientific, commercial and educational benefits?

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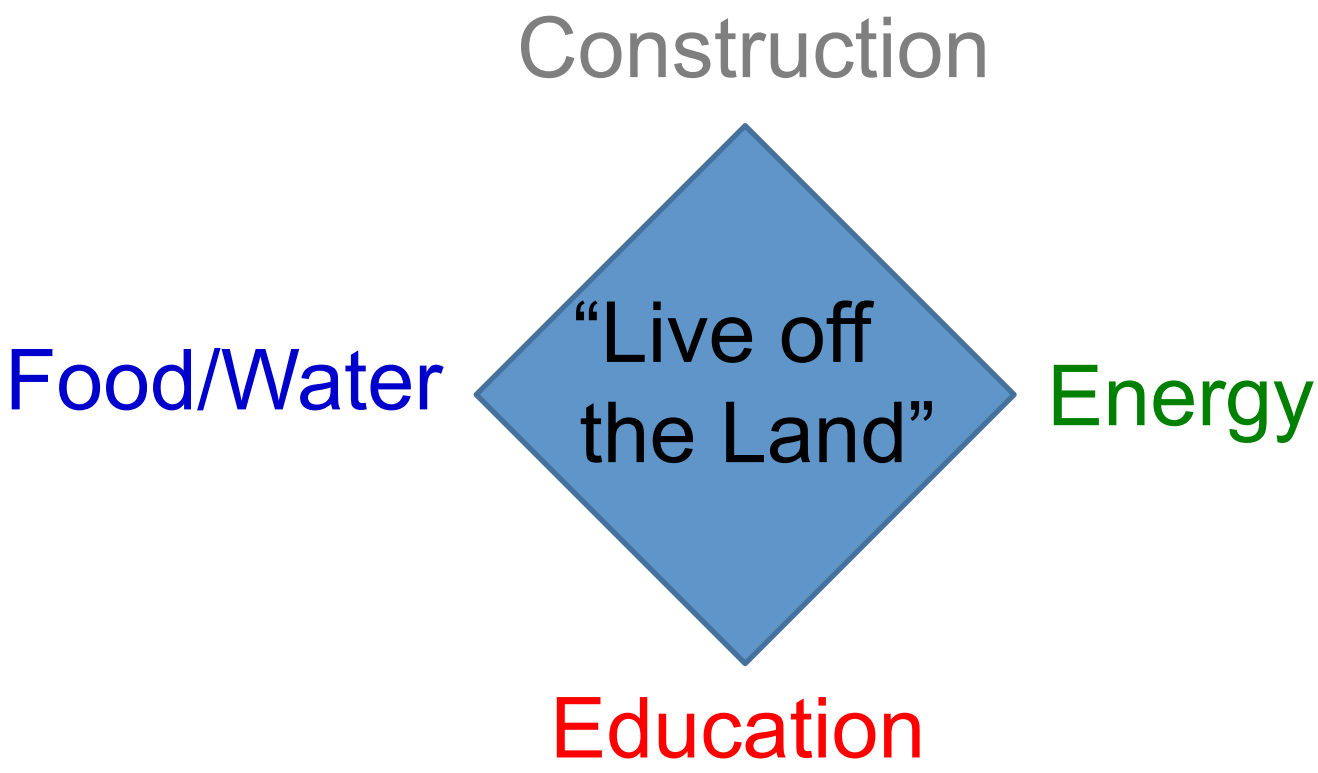
LRDP/U Concept

Purpose and Driving Principles

- Develop New Techniques and Technologies
- Make Space Affordable
- To enhance Science, Technology, Engineering, and Mathematics Education
- Create Jobs
- Make Hawaii More Self Sufficient (supports rationale for location)

Four Main Pillars of LRDP/U Concept



Take Advantage of Hawaii's Resources: Volcanic Material, Sun, Thermal (similar to Moon)

Construction

Reduce or eliminate cement and asphalt imports – Use volcanic material

Food/Water

Utilize water cleanup and advanced food/plant growth techniques

Energy

Reduce or eliminate petroleum/gas imports – Use sun, thermal, and alternative fuel production

Education

Promote Government, Industry, & Academia partnerships

Promote *Reduce, Reuse, Recycle, Repair, Reclamation*

Initial Approach for LRDP/U

- Start with small scale/focused projects; than develop into larger applications
  - Construction: *How can we replace or reduce cement and asphalt in driveways, sheds, etc.*
  - Energy*: Solar, geothermal, and alternative fuels (bio and waste) for homes or small communities*
  - *Food/Water: Water processing/desalinization, alternative food production*

- Involve University of Hawaii branch on each island (and other universities in partnership) to help focus toward needs of that particular island.
  - Joint work on techniques that can be used across all islands

- Have Government provide incentives for customers to utilize the techniques developed

- Involve small/local businesses to push the work out of the lab and create jobs

By Solving Hawaii and Earth problems using methods applicable to the Moon, the LRDP/U will gain governmental support (and funding)!